#### STIC Biotechnology Systems Branch

# RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:  $\frac{10/534,742}{5 \text{ ource:}}$ Date Processed by STIC:  $\frac{5/20/05}{5}$ 

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

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http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

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- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
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Revised 01/24/05



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005 TIME: 12:13:02

Input Set : A:\Sequence Listing.txt Output Set: N:\CRF4\05202005\J534742.raw

3 <110> APPLICANT: Corrado FOGHER 5 <120> TITLE OF INVENTION: Food flours with specific technological characteristics and low allergenicity 8 <130> FILE REFERENCE: 4161-12 / BW330R Mr 1,3,5,8,10,12,19,21 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/534,742 11 <141> CURRENT FILING DATE: 2005-05-12 13 <150> PRIOR APPLICATION NUMBER: PCT/IB2003/005092 14 <151> PRIOR FILING DATE: 2003-11-12 16 <150> PRIOR APPLICATION NUMBER: IT BO2002A000714

17 <151> PRIOR FILING DATE: 2002-11-13

19 <160> NUMBER OF SEQ ID NOS: 44

21 <170> SOFTWARE: MS Word

#### ERRORED SEQUENCES

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Does Not Comply
Corrected Diskette Neede

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32 Met Thr Lys Arg Leu Val Leu Phe Ala Ala Val Val Ala Leu Val 211 Leu Arg Asp Val Ser Pro Glu Cys Gln Pro Val Gly Gly Gly
42 50 55 60
44 Pro Val Ala Arg Gln Tyr Glu Gln Gln Val Val Val Pro Pro Lys Gly
45 65 70 75 80
47 Gly Ser Phe Tyr Pro Gly Glu Thr Thr Pro Pro Gln Gln Leu Gln Gln
48 85 90 95
50 Ser Ile Leu Trp Gly Ile Pro Ala Leu Leu Arg Arg Tyr Tyr Leu Ser
51 100 105 110
53 Val Thr Ser Pro Gln Gln Val Ser Tyr Tyr Pro Glv Cl54 115 120 35 Ala Leu Thr Ala Ala Glu Gly Glu Ala Ser Gly Gln Leu Gln Cys Glu 56 Gln Arg Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Glu Tyr 135 59 Tyr Leu Thr Ser Pro Gln Gln Ser Gly Gln Trp Gln Gln Pro Gly Gln 150 155 62 Gly Gln Ala Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Glu





TIME: 12:13:02

## RAW SEQUENCE LISTING PATENT APPLICATION: US/10/534,742

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71	Leu	Arg	Gln	Gly	Gln	Gln	Gly	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Pro	Arg
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74	Tyr	Tyr	Pro	Thr	Ser	Ser	Gln	Gln	Pro	Gly	Gln	Leu	Gln	Gln	Leu	Ala
	225	•				230				•	235					240
77	Gln	Gly	Gln	Gln	Gly	Gln	Gln	Pro	Glu	Arq	Gly	Gln	Gln	Gly	Gln	Gln
78		•			245					250	•			-	255	
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	Glv	Gln	Lvs	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Gln	Gly	Tyr	Tyr	Pro	Ile
84	-		275				•	280	•			•	285	•		
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87		290				1	295	-				300		•		
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96	02	0_0	0	340		<b>4-</b> 1			345					350	2	
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99	1	5	355	1				360		5			_		-	
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	L Gly	, Glr		, Gln	Gln	Pro	Glv		n Arc	Glr	n Pro	Glv		Tvr	Ser	Thr
10:	_		Gly	Gln	Gln	Pro	Gly 375	Glr	a Arg	g Glr	n Pro	Gly 380	туг	Туг	Ser	Thr
102	2 -	370	n Gly				375	Glr				380	Tyr			
102 102 104	2 1 Ser	370 Pro	n Gly			Gly	375 Glr	Glr				380 Tyr	Tyr			Thr Ser
102 102 104	2 1 Ser 5 385	370 Pro	Gly Glr	Gln	Leu	Gly 390	375 Glr	Glr Gly	, Glr	n Pro	Arg 395	380 Tyr	Tyr Tyr	Pro	Thr	Ser 400
103 103 103 103	2 1 Ser 5 385 7 Pro	370 Pro	Gly Glr	Gln	Leu Gly	Gly 390 Gln	375 Glr	Glr Gly	, Glr	n Pro	Arg 395 Arg	380 Tyr	Tyr Tyr	Pro	Thr	Ser 400 Pro
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103 104 105 107 108 110 113 114	2 Ser 1 Ser 5 385 7 Pro 3 0 Glu 1 1 Glr	370 Pros Glr Glr Glr	Gly  Glr  Glr  Glr  Glr  Gly  Gly  435	Gln Pro Gln 420 Gln	Leu Gly 405 Gln	Gly 390 Gln Gly	375 Glr Glu Glr	Glr Gly Glr Glr Glr Gly 440	Glr Glr Pro 425 Glr	Pro Pro 410 Glu	Arg 395 Arg Gln	380 Tyr Glr Gly	Tyr Tyr Tyr Leu Glr 445	Pro Glr Glr 430 Gly	Thr Glr 415 Gly	Ser 400 Pro Gln Gln
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100 100 100 100 100 110 110 110 110 110	2 Series	370 Pro Glr Glr Glr 450 Glr Glr	Gly  Glr  Glr  Glr  Gly  Gly  435  Glr  Gly  Ser	Gln 420 Gln Fro	Gly 405 Gln Gly Gly Gln Leu	Gly Gly Glu Gly Gln Gly Gln Gln Gln Gln Gln	375 Glr Glr Glr Glr Glr 455 Glr	Glr Gly Glr Glr Glr 440 Glr	Glr Glr Glr 425 Glr Glr Glr	Production	Arg 395 Arg Gln Fro Tyr 475 Gly	380 Tyr Glr Gly Gly Tyr 460	Tyr Tyr Tyr Clr Glr 445 Pro	Pro Glr 430 Gly Thr	Thr Glr 415 Gly Glr Ser	Ser 400 Pro Gln Gln Pro Gln 480 Gln
103 104 105 107 108 116 113 114 116 117 118 120 122 123	2 Ser	370 FPC GPC GIT GIT 450 GIT GSC SET	Gly  Gly  Gly  Gly  Gly  Gly  Gly  Gly	Gln 420 Gln Fro Gln Gln Gln Gln Gln Gln Gln Gln	Gly Gly Gly Gly Gly Leu 485	Gly Gly Glu Gly Gln Gly Gln Gln Gly Gln	375 Glr Glr Glr Glr Glr Glr	Glr Gly Glr Glr Glr Glr Glr Glr Fro	Glr Glr Glr 425 Glr Glr Glr Ala	Production	Arg 395 Arg Gln Fro Tyr 475 Gly	380 Tyr Glr Gly Gly 460 Pro	Tyr Tyr Tyr Leu Glr Glr 445 Pro	Production of Pr	Thr 415 1 Gly 7 Glr Ser Pro	Ser 400 Pro Gln Gln Pro Gln 480 Gln
103 104 109 107 108 110 113 114 116 117 119 122 123 125	2 Series	370 FPro GIR GIR GIR 450 GIR GIR GIR Ser	Gly  Gly  Gly  Gly  Gly  Gly  Gly  Gly	Gln 420 Gln Fro Gln Gln Gln Gln Gln Gln Gln Gln	Gly Gly Gly Gly Gly Gln Leu 485	Gly Gly Glu Gly Gln Gly Gln Gln Gly Gln	375 Glr Glr Glr Glr Glr Glr	Glr Gly Glr Glr Glr Glr Glr Glr Fro	Glr Glr Glr 425 Glr Glr Glr Ala	Production	Arg 395 Arg Gln Fro Tyr 475 Gly	380 Tyr Glr Gly Gly 460 Pro	Tyr Tyr Tyr Leu Glr Glr 445 Pro	Production of Pr	o Thr 415 415 Gly Glr Ser Pro Gly 495	Ser 400 Pro Gln Gln Pro Gln 480 Gln
100 100 100 100 110 110 111 111 112 120 123 125 126	2 Series	370 FPC GPC GIT GIT 450 GIT GIT GIT GIT GIT GIT	Gly  Glr  Glr  Gly  Glr  Gly  Gly  Gly	Gln 420 Gln Fro Gln Gln Gly Gln Gly Gln Gly Gln	Gly Gly Gly Gly Gln Leu 485	Gly Glu Gly Gln Gly Gln Gly Gln Gly Gln Gly Gln	375 Glr. Glr. Glr. Glr. Glr. Glr. Glr. Glr.	Glr Glr Glr Glr Glr Glr Glr Glr Glr Glr	Glr	Production	Arg 395 Arg Gln Fro Tyr 475 Gly	380 Tyr Glr Gly Gly 460 Pro	Tyr Tyr Tyr Leu Glr 445 Pro	Property of Proper	o Thr 415 415 Gly Glr Ser Pro Gly 495	Ser 400 Pro Gln 480 Gln Pro
103 104 105 107 108 110 113 114 115 120 123 125 126 128	2 Series	370 FPC GPC GIT GIT 450 GIT GIT GIT GIT GIT GIT	Gly  Glr  Glr  Glr  Gly  Gly  435  Glr  Glr  Glr  Glr  Glr  Glr  Glr  Gl	Gln 420 Gln Fro Gln Gln Gly Gln Gly Gln Gly Gln	Gly Gly Gly Gly Gln Leu 485	Gly Glu Gly Gln Gly Gln Gly Gln Gly Gln Gly Gln	375 Glr. Glr. Glr. Glr. Glr. Glr. Glr. Glr.	Glr Glr Glr Glr Glr Glr Glr Glr Glr Glr	Glr	Production	Arg 395 Arg Gln Fro Tyr 475 Gly	380 Tyr Glr Gly Gly 460 Pro	Tyr Tyr Tyr Leu Glr 445 Pro	Production of Pr	o Thr 415 415 Gly Glr Ser Pro Gly 495	Ser 400 Pro Gln Gln Pro Gln 480 Gln
103 104 105 107 108 110 113 114 115 126 123 125 126 128 128	2 Series	370 Pro	Gly  Glr  Glr  Glr  Gly  Gly  435  Glr  Glr  Glr  Glr  Glr  Glr  Glr  Gl	Gln 420 Gln Fro Gln Gly Gln Gly Gln Gly Gln Gly Gln	Gly Gly Gly Gly Gln Leu 485 Gln	Gly Glu Gly 470 Gln Gln Gly Fro	Glr. Glr. Glr. Glr. Glr. Glr. Glr. Glr.	Glr	Glr	Production	Arg 395 Arg Gln Fro Tyr 475 Gly	380 Tyr Glr Gly Gly 460 Pro	Tyr Tyr Tyr Leu Glr 445 Pro	Production of Pr	Thr 415 415 Gly Glr Ser Pro 495 495 Fro	Ser 400 Pro Gln 480 Gln Pro Thr
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#### RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005 TIME: 12:13:02

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Output Set: N:\CRF4\05202005\J534742.raw

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005 TIME: 12:13:02

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220			115		•			120	-	-		•	125			
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228	Pro	Thr	Ser	Pro	Gln	Gln	Ser	Gly	Gln	Lys	Gln	Pro	Gly	Tyr	Tyr	Pro
229					165			_		170			_	_	175	
231	Thr	Ser	Pro	Trp	Gln	Pro	Glu	Gln	Leu	Gln	Gln	Pro	Thr	Gln	Gly	Gln
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TIME: 12:13:02

### RAW SEQUENCE LISTING PATENT APPLICATION: US/10/534,742

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\05202005\J534742.raw

285 Gln Pro Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Leu Gln 475 286 465 288 Gln Pro Ala Gln Gly Gln Gln Pro Gly Gln Glu Gln Gln Gly Gln Gln 485 291 Pro Gly Gln Gly Gln Pro Gly Gln Gly Gln Pro Gly Tyr Tyr Pro 505 500 294 Thr Ser Pro Gln Gln Ser Gly Gln Glu Gln Leu Glu Gln Trp Gln 520 515 297 Gln Ser Gly Gln Gly Gln Pro Gly His Tyr Pro Thr Ser Pro Leu Gln 535 300 Pro Gly Gln Gly Gln Pro Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ile 550 555 303 Gly Gln Gly Gln Gln Pro Gly Gln Leu Gln Gln Pro Thr Gln Gly Gln 565 570 306 Gln Gly Gln Gln Pro Gly Gln Gly Gln Gly Gln Gln Pro Gly Glu 585 309 Gly Gln Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly 312 Gln Pro Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Ser Gly Gln Gly Gln 615 315 Gln Pro Gly Gln Trp Gln Gln Pro Gly Gln Gly Gln Pro Gly Tyr Tyr 630 635 318 Pro Thr Ser Ser Leu Gln Pro Glu Gln Gly Gln Gln Gly Tyr Tyr Pro 645 650 321 Thr Ser Gln Gln Gln Pro Gly Gln Gly Pro Gln Pro Gly Gln Trp Gln 665 324 Gln Ser Gly Gln Gly Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln 685 675 680 327 Ser Gly Gln Gly Gln Pro Gly Gln Trp Leu Gln Pro Gly Gln Trp 330 Leu Gln Ser Gly Tyr Tyr Leu Thr Ser Pro Gln Gln Leu Gly Gln Gly 710 715 333 Gln Gln Pro Arg Gln Trp Leu Gln Pro Arg Gln Gly Gln Gln Gly Tyr 725 730 336 Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Gly Gln Gln Leu Gly Gln 740 745 339 Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Gly 760 342 Gln Gln Gly Tyr Asp Ser Pro Tyr His Val Ser Ala Glu His Gln Ala 770 775 780 345 Ala Ser Leu Lys Val Ala Lys Ala Gln Gln Leu Ala Ala Gln Leu Pro 790 795 348 Ala Met Cys Arg Leu Glu Gly Gly Asp Ala Leu Leu Ala Ser Gln 805 352 <210> SEQ ID NO: 3 useit 22207 353 <211> LENGTH: 839 354 <212> TYPE: PRT 355 <213> ORGANISM: Wheat 357 <223> OTHER INFORMATION: Dx5



Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\05202005\J534742.raw

E--> 359 <400> SEQUENCE: 3 361 Met Ala Lys Arg Leu Val Leu Phe Val Ala Val Val Ala Leu Val 364 Ala Leu Thr Val Ala Glu Gly Glu Ala Ser Glu Gln Leu Gln Cys Glu 20 25 367 Arg Glu Leu Gln Glu Leu Gln Glu Arg Glu Leu Lys Ala Cys Gln Gln 40 370 Val Met Asp Gln Gln Leu Arg Asp Ile Ser Pro Glu Cys His Pro Val 373 Val Val Ser Pro Val Ala Gly Gln Tyr Glu Gln Gln Ile Val Val Pro 70 75 376 Pro Lys Gly Gly Ser Phe Tyr Pro Gly Glu Thr Thr Pro Pro Gln Gln 90 379 Leu Gln Gln Arg Ile Phe Trp Gly Ile Pro Ala Leu Leu Lys Arg Tyr 105 382 Tyr Pro Ser Val Thr Cys Pro Gln Gln Val Ser Tyr Tyr Pro Gly Gln 385 Ala Ser Pro Gln Arg Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln 130 135 388 Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Pro Gly Gln Trp Gln Gln 150 391 Pro Glu Gln Gly Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Pro 165 170 394 Gly Gln Leu Gln Gln Pro Ala Gln Gly Gln Gln Pro Gly Gln Gly Gln 180 185 397 Gln Gly Gln Gln Pro Gly Gln Gly Gln Pro Gly Tyr Tyr Pro Thr Ser 195 200 205 400 Ser Gln Leu Gln Pro Gly Gln Leu Gln Gln Pro Ala Gln Gly Gln Gln 215 403 Gly Gln Gln Pro Gly Gln Ala Gln Gln Gly Gln Gln Pro Gly Gln Gly 230 235 406 Gln Gln Pro Gly Gln Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln 409 Gln Pro Gly Gln Gly Gln Gly Gln Gln Leu Gly Gln Gly Gln Gln 265 260 412 Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Ser Gly Gln Gly Gln Pro Gly 275 280 415 Tyr Tyr Pro Thr Ser Leu Gln Gln Leu Gly Gln Gly Gln Ser Gly Tyr 290 295 418 Tyr Pro Thr Ser Pro Gln Gln Pro Gly Gln Gly Gln Fro Gly Gln 310 315 421 Leu Gln Gln Pro Ala Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln Gly 325 330 424 Gln Gln Pro Gly Gln Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln 345 427 Gln Pro Gly Gln Gly Gln Pro Gly Tyr Tyr Pro Thr Ser Pro Gln Gln 430 Ser Gly Gln Gly Gln Pro Gly Tyr Tyr Pro Thr Ser Ser Gln Gln Pro 375 380



Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\05202005\J534742.raw

433 Thr Gln Ser Gln Gln Pro Gly Gln Gly Gln Gly Gln Gln Val Gly 434 385 436 Gln Gly Gln Gln Ala Gln Gln Pro Gly Gln Gly Gln Pro Gly Gln 439 Gly Gln Pro Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Gly 420 425 442 Gln Pro Gly Tyr Tyr Leu Thr Ser Pro Gln Gln Ser Gly Gln Gly Gln 435 440 445 Gln Pro Gly Gln Leu Gln Gln Ser Ala Gln Gly Gln Lys Gly Gln Gln 455 448 Pro Gly Gln Gly Gln Pro Gly Gln Gly Gln Gly Gln Gln Pro 470 475 451 Gly Gln Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Pro Gly Tyr 485 490 454 Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Gln Gln Pro Gly Gln 505 457 Trp Gln Gln Pro Gly Gln Gly Gln Pro Gly Tyr Tyr Pro Thr Ser Pro 460 Leu Gln Pro Gly Gln Gly Gln Pro Gly Tyr Asp Pro Thr Ser Pro Gln 540 535 463 Gln Pro Gly Gln Gly Gln Pro Gly Gln Leu Gln Gln Pro Ala Gln 550 466 Gly Gln Gln Gly Gln Gln Leu Ala Gln Gly Gln Gln Gly Gln Pro 565 570 469 Ala Gln Val Gln Gln Gly Gln Pro Ala Gln Gly Gln Gly Gln 585 472 Gln Leu Gly Gln Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Gln 595 600 475 Gly Gln Gln Pro Ala Gln Gly Gln Gly Gln Gln Pro Gly Gln Gly 615 478 Gln His Gly Gln Gln Pro Gly Gln Gly Gln Gly Gln Gln Pro Gly 481 Gln Gly Gln Gln Pro Gly Gln Gly Gln Pro Trp Tyr Tyr Pro Thr Ser 484 Pro Gln Glu Ser Gly Gln Gly Gln Pro Gly Gln Trp Gln Gln Pro 665 487 Gly Gln Gly Gln Pro Gly Tyr Tyr Leu Thr Phe Ser Val Ala Ala Arg 680 490 Thr Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln 690 695 493 Gly Gln Gln Pro Gly Gln Trp Gln Gln Ser Gly Gln Gly Gln His Trp 710 715 496 Tyr Tyr Pro Thr Ser Pro Lys Leu Ser Gly Gln Gly Gln Arg Pro Gly 725 730 499 Gln Trp Leu Gln Pro Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser 745 502 Pro Gln Gln Pro Pro Gln Gly Gln Leu Gly Gln Trp Leu Gln Pro 505 Gly Gln Gly Gln Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Thr Gly



Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\05202005\J534742.raw

770 775 506 508 Gln Gly Gln Gln Ser Gly Gln Gly Gln Gly Tyr Tyr Ser Ser Tyr 511 His Val Ser Val Glu His Gln Ala Ala Ser Leu Lys Val Ala Lys Ala 805 810 514 Gln Gln Leu Ala Ala Gln Leu Pro Ala Met Cys Arg Leu Glu Gly Gly 820 825 517 Asp Ala Leu Ser Ala Ser Gln 835 521 <210> SEQ ID NO: 4 uset (2207 522 <211> LENGTH: 838 523 <212> TYPE: PRT 524 <213> ORGANISM: Wheat 526 <223> OTHER INFORMATION: HMW2 E--> 528 <400> SEQUENCE: 4 530 Met Ala Lys Arg Leu Val Leu Phe Val Ala Val Val Ala Leu Val 533 Ala Leu Thr Val Ala Glu Gly Glu Ala Ser Glu Gln Leu Gln Cys Glu 536 Arg Glu Leu Gln Glu Leu Gln Glu Arg Glu Leu Lys Ala Cys Gln Gln 539 Val Met Asp Gln Gln Leu Arg Asp Ile Ser Pro Glu Cys His Pro Val 542 Val Val Ser Pro Val Ala Gly Gln Tyr Glu Gln Gln Ile Val Val Pro 545 Lys Gly Gly Ser Phe Tyr Pro Gly Glu Thr Thr Pro Pro Gln Gln Leu 85 90 548 Gln Gln Arg Ile Phe Trp Gly Ile Pro Ala Leu Leu Lys Arg Tyr Tyr 105 551 Pro Ser Val Thr Ser Pro Gln Gln Val Ser Tyr Tyr Pro Gly Gln Ala 115 120 554 Ser Pro Gln Arg Pro Gly Gln Gly Gln Gln Pro Gly Gln Gln Gln Gln 557 Ser Gly Gln Gly Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Pro 150 155 560 Gly Gln Trp Gln Gln Pro Glu Gln Gly Gln Pro Gly Tyr Tyr Pro Thr 165 170 563 Ser Pro Gln Gln Pro Gly Gln Leu Gln Gln Pro Ala Gln Gly Gln Gln 180 185 566 Pro Gly Gln Gly Gln Gly Arg Gln Pro Gly Gln Gly Gln Pro Gly 195 200 569 Tyr Tyr Pro Thr Ser Ser Gln Leu Gln Pro Gly Gln Leu Gln Gln Pro 215 572 Ala Gln Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Gly Gln 235 575 Gln Pro Gly Gln Gly Gln Pro Gly Gln Gly Gln Gly Gln Gln Gln Gln 578 Pro Gly Gln Gly Gln Gln Pro Gly Gln Gly Gln Gly Gln Gln Leu 265





581 582	Gly	Gln	Gly 275	Gln	Gln	Gly	Tyr	Tyr 280	Pro	Thr	Ser	Leu	Gln 285	Gln	Ser	Gly
	Gln	Gly 290		Pro	Gly	Tyr	Tyr 295		Thr	Ser	Leu	Gln 300		Leu	Gly	Gln
587	_		Ser	Gly	Tyr	Tyr		Thr	Ser	Pro			Pro	Gly	Gln	_
	305		_			310					315				_	320
591				_	325	Leu				330		_			335	
593 594	Gln	Gly	Gln	Gln 340	Gly	Gln	Gln	Pro	Gly 345	Gln	Gly	Gln	Gln	Gly 350	Gln	Gln
	Pro	Gly	Gln		Gln	Gln	Pro	Gly		Gly	Gln	Pro	Gly		Tyr	Pro
597		_	355	_				360		_			365	_	_	
599 600	Thr	Ser 370	Pro	Gln	Gln	Ser	Gly 375	Gln	Gly	Gln	Pro	Gly 380	Tyr	Tyr	Pro	Thr
	Ser		Gln	Gln	Pro	Thr		Ser	Gln	Gln	Pro		Gln	Glv	Gln	Gln
	385		<b></b>			390	<b></b>		<b></b>		395	1		1		400
		Gln	Gln	Val	Gly	Gln	Gly	Gln	Gln	Ala		Gln	Pro	Gly	Gln	
606	•				405		•			410				•	415	•
608	Gln	Gln	Pro	Gly	Gln	Gly	Gln	Pro	Gly	Tyr	Tyr	Pro	Thr	Ser	Pro	Leu
609				420					425					430		
611	Gln	Ser	_	Gln	Gly	Gln	Pro	_	Tyr	Tyr	Leu	Thr		Pro	Gln	Gln
612			435					440			_	_	445			_
	Ser		Gln	Gly	Gln	Gln		Gly	Gln	Leu	Gln		Ser	Ala	Gln	Gly
615	~3	450	~ 7	~3	~1	_	455	~1	~1	~1	~ 7	460	~7	~1	~7	~1
		Lys	GIY	GIn	GIn	Pro	Gly	GIn	GIY	GIn		Pro	GIY	GIn	GLY	
	465	<b>~1</b>	<b>~1</b> ~	<b>~1</b> ~	D	470	<b>01</b> -	<u>ما</u>	~1 <u>~</u>	<i>α</i> 1	475	<u>ما ب</u>	C1	Dwa	~1	480
621		_			485	Gly				490	_				495	
	Gly	Gln	Pro		Tyr	Tyr	Pro	Thr		Pro	Gln	Gln	Ser		Gln	Gly
624				500	_			_	505		_	_		510	_	
	Gln	Gln		Gly	Gln	Trp	Gln		Pro	Gly	Gln	Gly		Pro	Gly	Tyr
627	_	_	515	_		_	~ 7	520	~ 7	~ 7	~1	<b>a</b> 1	525	~7	_	
	Tyr		Thr	ser	Pro	Leu		Pro	GIY	GIn	GIA		Pro	GIY	Tyr	Asp
630	Dro	530	Cor	Dro	Cln	Gln	535 Bro	C111	Cln	Clv	Cln	540	Dro	Clv	Gl n	LOU
633		1111	Ser	PIO	GIII	550	PIO	GIY	GIII	GTÅ	555	GIII	FIQ	GIY	GIII	560
		Gln	Pro	Δla	Gln	Gly	Gln	Gln	Glv	Gln		Len	Δla	Gln	Glv	
636	· · · ·	0		1114	565	O	02	01	<b>01</b>	570	01	Lcu		<b>0111</b>	575	<b></b>
	Gln	Glv	Gln	Gln		Ala	Gln	Val	Gln		Glv	Gln	Gln	Pro		Gln
639		1		580					585		1			590		
	Gly	Gln	Gln		Gln	Gln	Leu	Gly		Gly	Gln	Gln	Gly		Gln	Pro
642	-		595	•				600		•			605			
644	Gly	Gln	Gly	Gln	Gln	Pro	Ala	Gln	Gly	Gln	Gln	Gly	Gln	Gln	Pro	Gly
645		610					615					620				
647	Gln	Gly	Gln	Gln	Gly	Gln	Gln	Pro	Gly	Gln	Gly	Gln	Gln	Pro	Gly	${\tt Gln}$
648						630					635					640
	Gly	Gln	Pro	${\tt Trp}$	Tyr	Tyr	Pro	Thr	Ser		Gln	Glu	Ser	Gly	Gln	Gly
651					645					650					655	
653	Gln	Gln	Pro	Gly	Gln	Trp	Gln	Gln	Pro	Gly	Gln	Trp	Gln	Gln	Pro	Gly



Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\05202005\J534742.raw

660 654 665 656 Gln Gly Gln Pro Gly Tyr Tyr Leu Thr Ser Pro Leu Gln Leu Gly Gln 659 Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln Gly 695 662 Gln Gln Pro Gly Gln Trp Gln Gln Ser Gly Gln Gly Gln His Gly Tyr 710 715 665 Tyr Pro Thr Ser Pro Gln Leu Ser Gly Gln Gly Gln Arg Pro Gly Gln 730 725 668 Trp Leu Gln Pro Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro 745 671 Gln Gln Ser Gly Gln Gly Gln Leu Gly Gln Trp Leu Gln Pro Gly 755 760 765 674 Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Thr Gly Gln 677 Gly Gln Gln Ser Gly Gln Gly Gln Gln Gly Tyr Tyr Ser Ser Tyr His 790 795 680 Val Ser Val Glu His Gln Ala Ala Ser Leu Lys Val Ala Lys Ala Gln 681 805 683 Gln Leu Ala Ala Gln Leu Pro Ala Met Cys Arg Leu Glu Gly Gly Asp 820 825 686 Ala Leu Ser Ala Ser Gln 835 690 <210> SEQ ID NO: 5 uset (2207 691 <211> LENGTH: 789 692 <212> TYPE: PRT 693 <213> ORGANISM: Wheat 695 <223> OTHER INFORMATION: Bx7 E--> 697 <400> SEQUENCE: 5 699 Met Ala Lys Arg Leu Val Leu Phe Ala Ala Val Val Val Ala Leu Val 702 Ala Leu Thr Ala Ala Glu Gly Glu Ala Ser Gly Gln Leu Gln Cys Glu 703 705 His Glu Leu Glu Ala Cys Gln Gln Val Val Asp Gln Gln Leu Arg Asp 40 708 Val Ser Pro Gly Cys Arg Pro Ile Thr Val Ser Pro Gly Thr Arg Gln 55 711 Tyr Glu Gln Gln Pro Val Val Pro Ser Lys Ala Gly Ser Phe Tyr Pro 70 714 Ser Glu Thr Thr Pro Ser Gln Gln Leu Gln Gln Met Ile Phe Trp Gly 85 717 Ile Pro Ala Leu Leu Arg Arg Tyr Tyr Pro Ser Val Thr Ser Ser Gln 100 105 720 Gln Gly Ser Tyr Tyr Pro Gly Gln Ala Ser Pro Gln Gln Ser Gly Gln 723 Gly Gln Gln Pro Gly Gln Glu Gln Pro Gly Gln Gly Gln Asp 135 726 Gln Gln Pro Gly Gln Arg Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln 727 145 150 155



729 730	Gln	Pro	Gly	Gln	Gly 165	Gln	Gln	Leu	Gly	Gln 170	Gly	Gln	Pro	Gly	Tyr 175	Tyr
	Pro	Thr	Ser	Gln 180		Pro	Gly	Gln	Lys 185	Gln	Gln	Ala	Gly	Gln 190	Gly	Gln
	Gln	Ser	Gly 195		Gly	Gln	Gln	Gly 200		Tyr	Pro	Thr	Ser 205		Gln	Gln
	Ser	Gly 210		Gly	Gln	Gln	Pro 215		Gln	Gly	Gln	Pro 220		Tyr	Tyr	Pro
	Thr		Pro	Gln	Gln	Ser		Gln	Trp	Gln	Gln		Gly	Gln	Gly	Gln
	225					230					235					240
	Gln	Pro	Gly	Gln	Gly 245	Gln	Gln	Ser	Gly		Gly	Gln	Gln	ĠĮУ	Gln 255	Gln
745	Dro	Clv	Cln	Gly		Arg	Pro	Gly	Gln	250	Gln	Gln	Glv	Tur		Dro
748				260					265					270		
750	Ile	Ser	${\tt Pro}$	Gln	Gln	${\tt Pro}$	Gly	Gln	Gly	Gln	Gln	Ser	Gly	Gln	Gly	Gln
751			275					280					285			
753 754	Pro	Gly 290	Tyr	Tyr	Pro	Thr	Ser 295	Leu	Arg	Gln	Pro	Gly 300	Gln	Trp	Gln	Gln
	Dro		Gln	Glv	Gln	Gln		Glv	Gln	Glv	Gln		Glv	Gln	Gln	Pro
	305	019	0111	017	0111	310	110		01	017	315	<b>U</b>	011	<b></b>	<b></b>	320
		Gln	Glv	Gln	Gln	Ser	Glv	Gln	Gly	Gln		Gly	Tyr	Tyr	Pro	
760	2		- 4		325		-		1	330		•	•	•	335	
762	Ser	Leu	Gln	Gln	Pro	Gly	Gln	Gly	Gln	Gln	Leu	Gly	Gln	Gly	Gln	Pro
763				340					345					350		
	Gly	Tyr	_	Pro	Thr	Ser	Gln		Ser	Glu	Gln	Gly		Gln	Pro	Gly
766	C1 ~	~1··	355	C1 5	Dro	Gly	C1 ~	360	C1 n	Cln	C1.,	Ф. т.	365	Dro	Thr	Cor
769	GIII	370	гуѕ	GIII	PIO	GIY	375	GIY	GIII	GIII	GIY	380	тут	PIO	1111	SEI
	Pro		Gln	Ser	Glv	Gln		Gln	Gln	Leu	Glv		Glv	Gln	Pro	Glv
	385	<b></b>			1	390	1				395		1			400
		Tyr	Pro	Thr	Ser	Pro	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Gln	Ser	Gly
775	-	_			405					410					415	
777	Gln	Gly	Gln	Gln	Gly	Tyr	Tyr	Pro	Thr	Ser	Pro	Gln	Gln	Ser	Gly	Gln
778		_	_	420	_	_	_	_	425				_	430	_	_
	Gly	Gln		Pro	Gly	Gln	Gly		Ser	Gly	Tyr	Phe		Thr	Ser	Arg
781	<b>~</b> 1	<b>01</b> -	435	<b>01</b>	<u>ما م</u>	<b>~1</b>	<i>α</i> 1	440	Dwa	~1	C1 -	~1··	445	~1 <u>~</u>	Com	C1
	Gin		ser	GIY	GIN	Gly	455	GIN	Pro	GIY	GIII	460	GIN	GIII	ser	GIA
784	Gln	450	Gln	Gln	Gl v	Gln		Pro	Glv	Gln	Glv		Gln	Δla	Tur	Tvr
	465	Gry	GIII	GIII	Gry	470	GIII	110	Gry	GIII	475	OIII	OIII	AIU	- y -	480
		Thr	Ser	Ser	Gln	Gln	Ser	Ara	Gln	Ara		Gln	Ala	Glv	Gln	
790					485			5		490				1	495	
792	Gln	Arg	Pro	Gly	Gln	Gly	Gln	Pro	Gly	Tyr	Tyr	Pro	Thr	Ser	Pro	Gln
793		-		500					505					510		
795	Gln	Pro	Gly	Gln	Glu	Gln	Gln		Gly	Gln	Ala	Gln	Gln	Ser	Gly	Gln
796			515					520					525			
	Trp		Leu	Val	Tyr	Tyr		Thr	Ser	Pro	Gln		Pro	Gly	Gln	Leu
799	<b>~</b> 1	530	<b>5</b>		<b>a</b> 1	<b>~</b> 1-	535	<b>01</b>	D	7 T -	<b>01</b>	540	<b>01</b>	<b>~1</b>	Q	21-
801	GIN	GIN	Pro	ΑΙα	GIN	Gly	GIN	GIN	rro	ΑΙα	GIN	GТĀ	GIN	GIN	ser	ATG



Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\05202005\J534742.raw

550 802 545 804 Gln Glu Gln Gln Pro Gly Gln Ala Gln Gln Ser Gly Gln Trp Gln Leu 565 807 Val Tyr Tyr Pro Thr Ser Pro Gln Gln Pro Gly Gln Leu Gln Gln Pro 580 585 810 Ala Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly 600 813 Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln 615 816 Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Gly 817 625 630 635 819 Gln Gln Pro Gly Gln Gly Gln Pro Arg Gln Gly Gln Gly Tyr 645 650 822 Tyr Pro Ile Ser Pro Gln Gln Ser Gly Gln Gly Gln Pro Gly Gln 665 825 Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Ser Gly Gln Gly 828 Gln Gln Pro Gly His Glu Gln Pro Gly Gln Trp Leu Gln Pro Gly 695 831 Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Ser Gln Gln Ser Gly Gln 710 715 834 Gly His Gln Ser Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Leu 730 725 837 Trp Gln Pro Gly Gln Gly Gln Gly Tyr Ala Ser Pro Tyr His Val 745 840 Ser Ala Glu Tyr Gln Ala Ala Arg Leu Lys Val Ala Lys Ala Gln Gln 755 760 765 843 Leu Ala Ala Gln Leu Pro Ala Met Cys Arg Leu Glu Gly Ser Asp Ala 770 775 846 Leu Ser Thr Arg Gln 847 785 850 <210> SEQ ID NO: 6 erset <2207 851 <211> LENGTH: 660 852 <212> TYPE: PRT 853 <213> ORGANISM: Wheat 855 <223> OTHER INFORMATION: Dy12 E--> 857 <400> SEOUENCE: 6 859 Met Ala Lys Arg Leu Val Leu Phe Ala Ala Val Val Ile Ala Leu Val 862 Ala Leu Thr Thr Ala Glu Gly Glu Ala Ser Arg Gln Leu Gln Cys Glu 20 25 865 Arg Glu Leu Gln Glu Ser Ser Leu Glu Ala Cys Arg Gln Val Val Asp 40 868 Gln Gln Leu Ala Gly Arg Leu Pro Trp Ser Thr Gly Leu Gln Met Arg 871 Cys Cys Gln Gln Leu Arg Asp Val Ser Ala Lys Cys Arg Ser Val Ala 874 Val Ser Gln Val Ala Arg Gln Tyr Glu Gln Thr Val Val Pro Pro Lys





Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\05202005\J534742.raw

877 Gly Gly Ser Phe Tyr Pro Gly Glu Thr Thr Pro Leu Gln Gln Leu Gln 878 100 105 880 Gln Gly Ile Phe Trp Gly Thr Ser Ser Gln Thr Val Gln Gly Tyr Tyr 120 125 115 883 Pro Ser Val Thr Ser Pro Arg Gln Gly Ser Tyr Tyr Pro Gly Gln Ala 135 886 Ser Pro Gln Gln Pro Gly Gln Gln Gln Pro Gly Lys Trp Gln Glu 150 155 889 Pro Gly Gln Gly Gln Gln Trp Tyr Tyr Pro Thr Ser Leu Gln Gln Pro 165 170 892 Gly Gln Gly Gln Gln Ile Gly Lys Gly Lys Gln Gly Tyr Tyr Pro Thr 180 185 895 Ser Leu Gln Gln Pro Gly Gln Gly Gln Gln Ile Gly Gln Gln Gln 200 898 Gly Tyr Tyr Pro Thr Ser Pro Gln His Thr Gly Gln Arg Gln Gln Pro 215 901 Val Gln Gly Gln Gln Ile Gly Gln Gly Gln Pro Glu Gln Gly Gln 904 Gln Pro Gly Gln Trp Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln 245 250 907 Leu Gly Gln Gly Gln Pro Gly Gln Trp Gln Gln Ser Gly Gln Gly 265 910 Gln Gln Gly His Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln Gly Gln 275 280 913 Gln Gly His Tyr Leu Ala Ser Gln Gln Gln Pro Ala Gln Gly Gln Gln 295 916 Gly His Tyr Pro Ala Ser Gln Gln Gln Pro Gly Gln Gly Gln Gln Gly 310 315 919 His Tyr Pro Ala Ser Gln Gln Pro Gly Gln Gly Gln Gln Gly His 325 922 Tyr Pro Ala Ser Gln Gln Glu Pro Gly Gln Gly Gln Gln Gly Gln Ile 345 925 Pro Ala Ser Gln Gln Gln Pro Gly Gln Gly Gln Gln Gly His Tyr Pro 355 360 928 Ala Ser Leu Gln Gln Pro Gly Gln Gln Gly His Tyr Pro Thr Ser Leu 375 931 Gln Gln Leu Gly Gln Gly Gln Ile Gly Gln Pro Gly Gln Lys Gln 390 395 934 Gln Pro Gly Gln Gly Gln Gln Thr Gly Gln Gly Gln Pro Glu Gln 405 410 937 Glu Gln Gln Pro Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Leu 420 425 430 940 Gln Gln Pro Gly Gln Gly Gln Gln Gly Gln Gly Gln Gln Gly Tyr 440 943 Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln Gly Gln Gln His Tyr 455 946 Pro Ala Ser Leu Gln Gln Pro Gly Gln Gly Gln Gly Gln Pro Gly Gln 949 Arg Gln Gln Pro Gly Gln Gly Gln His Pro Glu Gln Gly Gln Pro



Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\05202005\J534742.raw

485 490 950 952 Gly Gln Gly Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln Gln Pro Gly 955 Gln Gly Gln Gln Leu Gly Gln Gly Gln Gly Tyr Tyr Pro Thr Ser 515 520 525 958 Pro Gln Gln Pro Gly Gln Gly Gln Fro Gly Gln Gly Gln Gly Gln Gly 535 961 His Cys Pro Met Ser Pro Gln Gln Thr Gly Gln Ala Gln Gln Leu Gly 550 555 964 Gln Gly Gln Ile Gly Gln Val Gln Gln Pro Gly Gln Gln Gln 565 570 967 Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln Gly Gln Gln Ser 580 585 971 Gly Gln Gly Gln Ser Gly Gln Gly His Gln Pro Gly Gln Gly Gln 595 600 974 Gln Ser Gly Gln Glu Lys Gln Gly Tyr Asp Ser Pro Tyr His Val Ser 977 Ala Glu Gln Gln Ala Ala Ser Pro Met Val Ala Lys Ala Gln Gln Pro 630 635 980 Ala Thr Gln Leu Pro Thr Val Cys Arg Met Glu Gly Gly Asp Ala Leu 645 650 983 Ser Ala Ser Gln 984 987 <210> SEQ ID NO: 7 insert <2207 988 <211> LENGTH: 648 989 <212> TYPE: PRT 990 <213> ORGANISM: Wheat 992 <223> OTHER INFORMATION: Dy10 E--> 994 <400> SEQUENCE: 7 996 Met Ala Lys Arg Leu Val Leu Phe Ala Ala Val Val Ile Ala Leu Val 999 Ala Leu Thr Thr Ala Glu Gly Glu Ala Ser Arg Gln Leu Gln Cys Glu 1002 Arg Glu Leu Gln Glu Ser Ser Leu Glu Ala Cys Arg Gln Val Val Asp 40 1005 Gln Gln Leu Ala Gly Arg Leu Pro Trp Ser Thr Gly Leu Gln Met Arg 1008 Cys Cys Gln Gln Leu Arg Asp Val Ser Ala Lys Cys Arg Ser Val Ala 1011 Val Ser Gln Val Ala Arg Gln Tyr Glu Gln Thr Val Val Pro Pro Lys 85 90 1014 Gly Gly Ser Phe Tyr Pro Gly Glu Thr Thr Pro Leu Gln Gln Leu Gln 100 105 1017 Gln Gly Ile Phe Trp Gly Thr Ser Ser Gln Thr Val Gln Gly Tyr Tyr 115 120 1020 Pro Gly Val Thr Ser Pro Arg Gln Gly Ser Tyr Tyr Pro Gly Gln Ala 140 1023 Ser Pro Gln Gln Pro Gly Gln Gln Gln Pro Gly Lys Trp Gln Glu 150 155





TIME: 12:13:02

#### RAW SEQUENCE LISTING PATENT APPLICATION: US/10/534,742

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\05202005\J534742.raw

1026 Pro Gly Gln Gly Gln Gln Trp Tyr Tyr Pro Thr Ser Leu Gln Gln Pro 165 170 1029 Gly Gln Gly Gln Gln Ile Gly Lys Gly Gln Gln Gly Tyr Tyr Pro Thr 185 180 190 1032 Ser Leu Gln Gln Pro Gly Gln Gly Gln Gly Tyr Tyr Pro Thr Ser 195 200 1035 Leu Gln His Thr Gly Gln Arg Gln Gln Pro Val Gln Gly Gln Gln Pro 215 1038 Glu Gln Gly Gln Pro Gly Gln Trp Gln Gly Tyr Tyr Pro Thr 230 235 1041 Ser Pro Gln Gln Leu Gly Gln Gly Gln Pro Arg Gln Trp Gln Gln 245 250 1044 Ser Gly Gln Gly Gln Gly His Tyr Pro Thr Ser Leu Gln Gln Pro 260 265 1047 Gly Gln Gly Gln Gly His Tyr Leu Ala Ser Gln Gln Pro Gly 275 280 1050 Gln Gly Gln Gly His Tyr Pro Ala Ser Gln Gln Gln Pro Gly Gln 290 295 1053 Gly Gln Gln Gly His Tyr Pro Ala Ser Gln Gln Gln Pro Gly Gln Gly 310 1056 Gln Gln Gly His Tyr Pro Ala Ser Gln Glu Pro Gly Gln Gly Gln 325 330 1059 Gln Gly Gln Ile Pro Ala Ser Gln Gln Gln Pro Gly Gln Gln Gln 340 345 1062 Gly His Tyr Pro Ala Ser Leu Gln Gln Pro Gly Gln Gly Gln Gln Gly 355 360 1065 His Tyr Pro Thr Ser Leu Gln Gln Leu Gly Gln Gly Gln Gln Thr Gly 375 370 1068 Gln Pro Gly Gln Lys Gln Gln Pro Gly Gln Gln Gln Thr Gly Gln 1069 385 390 395 1071 Gly Gln Gln Pro Glu Gln Gln Gln Pro Gly Gln Gly Gln Gln Gly 410 1074 Tyr Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln Gly Gln Gln Gln Gly 425 1077 Gln Gly Gln Gly Tyr Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln 440 1080 Gly Gln Gln Gly His Tyr Pro Ala Ser Leu Gln Gln Pro Gly Gln Gly 450 455 1083 Gln Pro Gly Gln Arg Gln Gln Pro Gly Gln Gly Gln His Pro Glu Gln 470 475 1086 Gly Lys Gln Pro Gly Gln Gly Gln Gly Tyr Tyr Pro Thr Ser Pro 485 490 1089 Gln Gln Pro Gly Gln Gly Gln Leu Gly Gln Gly Gln Gln Gly Tyr 500 505 1092 Tyr Pro Thr Ser Pro Gln Gln Pro Gly Gln Gly Gln Gln Pro Gly Gln 520 1095 Gly Gln Gln Gly His Cys Pro Thr Ser Pro Gln Gln Ser Gly Gln Ala 535 1098 Gln Gln Pro Gly Gln Gly Gln Ile Gly Gln Val Gln Gln Pro Gly





TIME: 12:13:02

#### RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\05202005\J534742.raw

1	099	545					550					555					560
1	101	Gln	Gly	Gln	Gln	Gly	Tyr	Tyr	Pro	Thr	Ser	Val	Gln	Gln	Pro	Gly	Gln
1	102					565					570					575	
1	104	Gly	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Gln	Ser	Gly	Gln	Gly	His	Gln	Pro
1	105				580					585					590		
1	.107	Gly	Gln	Gly	Gln	Gln	Ser	Gly	Gln	Glu	Gln	Gln	Gly	Tyr	Asp	Ser	Pro
1	108			595					600					605			
1	110	Tyr	His	Val	Ser	Ala	Glu	Gln	Gln	Ala	Ala	Ser	Pro	Met	Val	Ala	Lys
	111		610					615					620				
1	113	Ala	Gln	Gln	Pro	Ala	Thr	Gln	Leu	Pro	Thr	Val	Cys	Arg	Met	Glu	
	.114						630					635					640
1	116	Gly	Asp	Ala	Leu	Ser	Ala	Ser	Gln								
1	117					645											
3	120	<210	)> SI	EQ II	ON C	: 8											
]	121	<211	L> LI	ENGTH	4: 70	)5			•	1	10	\ <u>`</u>	7				
1	122	<212	2> T	YPE:	PRT			,	12	J (	( )	20.					
1	123	<213	3 > OI	RGAN	ISM:	Whea	at		-								
1	1125	<223	3 > 0	THER	INF	ORMA'	CION:	: By	9							•	
- 1	127	<400	)> SI	EQUE	NCE:	8											_
-	L129	Met	Ala	Lys	Arg	Leu	Val	Leu	Phe	Ala	Thr	Val	Val	Ile	Thr		Val
	1130					5					10				_	15	
	1132	Ala	Leu	Thr	Ala	Ala	Glu	Gly	Glu	Ala	Ser	Arg	Gln	Leu		Cys	Glu
-	1133				20					25					30	_	
-	1135	Arg	Glu	Leu	Gln	Glu	Ser	Ser	Leu	Glu	Ala	Cys	Arg		Val	Val	Asp
:	1136			35					40				_	45		.: .	_
-	1138	Gln	Gln	Leu	Ala	Gly	Arg	Leu	Pro	Trp	Ser	Thr		Leu	Gln	Met	Arg
-	1139		50					55					60	_	_		
-	1141	Cys	Cys	Gln	Gln	Leu	Arg	Asp	Val	Ser	Ala		Cys	Arg	Pro	Val	Ala
:	1142	65					70					75	<b>-</b>		_	_	80
	1144	Val	Ser	Gln	Val		Arg	Gln	Tyr	Glu		Thr	Val	Val	Pro		Lys
	1145					85					90	_	_	<b>~</b> 1.	<b>a</b> 1	95	<b>01</b>
	1147	Gly	Gly	Ser		Tyr	Pro	Gly	Glu		Thr	Pro	Leu	GIN		ьeu	Gln
	1148			_	100				_	105	~ 1	m1	**- 1	<b>~</b> 1	110	m	TT
		Gln	Val		Phe	Trp	Gly	Thr		Ser	GIn	Thr	vaı		GIY	TAT	Tyr
	1151			115	_	_	_	<b>~</b> 3	120	<b>a</b> 1	D		m	125	C1	Cln	מות
		Pro		Val	Ser	Ser	Pro		GIN	GIY	Pro	Tyr	191 140		GIY	GIII	Ala
	1154	_	130	~7	~1	D	<b>a</b> 1	135	~1	~1 <b>~</b>	Cl n	Dro			Trn	Gln	Glu
			Pro	GIn	Gin	Pro		GIN	GIA	GIII	GIII		GIY	пуs	ттр	GIII	Glu 160
	1157	145	~-7	~-7	~1	a1	150	a1		TT	Dwo	155	Cor	T 011	Uic	Gln	
		Leu	GIY	GIn	GIY		Gin	GIY	Tyr	Tyr	170		ser	Leu	urs	175	Ser
	1160	~ 7	<b>~</b> 1	~1	<b>~</b> 3	165	al	m	П	Dro			Tou	Gln	Gln		
		GLY	GIn	GIY		GIN	стХ	ıyr	ıyr			ser	ьeu	GIII	190		Gly
	1163	<b>~</b> 3.	<b>a</b> 3 -	<u>ما</u>	180	т1 -	<b>C1.</b> -	C1 -	C1	185		G1 v	ጥ፡፡	ጥህን			Ser
		GIN	GIÀ			тте	сту	GIU			GIII	GIA	- Y -	205		T11T	Ser
	1166	<b>T</b>	<b>01</b>	195	Desc	<b>~1.</b> -	~1~	<b>C1</b>	200 Gln		т1 ^	Gl v	Gln			Gln	Gly
					Pro	.ет <b>х</b>	GIN			GIU	тте	сту	220		GIII	Ų111	O T Y
	1169	m	210		mb	C ~	Dwc	215		D~~	<b>C</b> 1••	Gln			Gln	Pro	Glv
		_		PIO	ınr	ser			птр	FIO	GIY	235		U111	O111		Gly 240
	11/2	225					230					233					210

E-->





TIME: 12:13:02

# RAW SEQUENCE LISTING PATENT APPLICATION: US/10/534,742

1174	Gln	Gly	Gln	Gln	Ile	Gly	Gln	Gly	Gln	Gln	Leu	Gly	Gln	Gly		Gln
1175					245					250					255	_
1177	Ile	Gly	Gln	Gly	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Gln	Gly	Tyr	Tyr	Pro
1178				260					265					270		
1180	Thr	Ser	Pro	Gln	Gln	Leu	Gly	Gln	Gly	Gln	Gln	Pro	Gly	Gln	Trp	Gln
1181			275					280					285			
1183	Gln	Ser	Gly	Gln	Gly	Gln	Gln	Gly	Tyr	Tyr	Pro	Thr	Ser	Gln	Gln	Gln
1184		290					295					300				
1186	Pro	Gly	Gln	Gly	Gln	Gln	Gly	Gln	Tyr	Pro	Ala	Ser	Gln	Gln	Gln	Pro
1187	305					310					315					320
1189	Gly	Gln	Gly	Gln	${\tt Gln}$	Gly	Gln	Tyr	Pro	Ala	Ser	Gln	Gln	Gln	Pro	Gly
1190					325					330					335	
1192	Gln	Gly	Gln	Gln	Gly	Gln	Tyr	Pro	Ala	Ser	Gln	Gln	Gln	Pro	Gly	Gln
1193				340					345					350		
1195	Gly	Gln	${\tt Gln}$	Gly	His	Tyr	Leu	Ala	Ser	Gln	Gln	Gln	Pro	Gly	Gln	Gly
1196			355					360					365			
1198	Gln	Gln	Arg	His	Tyr	Pro	Ala	Ser	Leu	Gln	Gln	Pro	Gly	Gln	Gly	Gln
1199		370					375					380				
1201	Gln	Gly	His	Tyr	Thr	Ala	Ser	Leu	Gln	Gln	Pro	Gly	Gln	Gly	Gln	Gln
1202						390					395					400
1204	Gly	His	Tyr	Pro	Ala	Ser	Leu	Gln	Gln	Val	Gly	Gln	Gly	Gln		Ile
1205					405					410					415	
1207	Gly	Gln	Leu	Gly	Gln	Arg	Gln	Gln	Pro	Gly	Gln	Gly	Gln		Thr	Arg
1208				420					425					430	_	
1210	Gln	Gly	Gln	Gln	Leu	Glu	Gln	Gly	Gln	Gln	Pro	Gly		Gly	Gln	Gln
1211			435					440					445			
1213	Thr	Arg	Gln	Gly	Gln	Gln	Leu	Glu	Gln	Gly	Gln		Pro	Gly	Gln	Gly
1214		450					455					460				
1216	Gln	Gln	Gly	Tyr	Tyr	Pro	Thr	Ser	Pro	Gln		Ser	Gly	Gln	Gly	
1217						470					475				_	480
1219	Gln	Pro	Gly	Gln		Gln	Gln	Pro	Gly		Gly	Gln	GIn	Gly		Tyr
1220					485			_	_	490					495	_
1222	Ser	Ser	Ser	Leu	Gln	Gln	Pro	Gly		Gly	Leu	GIn	GIY		Tyr	Pro
1223				500			_		505		_		~-7	510	~1	a1
1225	Ala	Ser	Leu	Gln	Gln	Pro	Gly		Gly	His	Pro	GIY		Arg	GIn	GIN
1226			515			_		520				~-7	525	~1	<b>~</b> 1	<b>a1</b>
1228	Pro	Gly	Gln	Gly	Gln	Gln		Glu	Gln	Gly	GIn		Pro	GIY	GIn	GIY
1229		530					535	_	_			540	~1.	<b>01</b>	<b>~</b> 1	T
1231		Gln	Gly	Tyr	Tyr		Thr	Ser	Pro	GIn		Pro	GIY	GIN	GIY	
1232	545					550		_		_	555		_	_	~ 7	560
1234	Gln	Leu	. Gly	Gln	Gly	Gln	Gln	Gly	Tyr			Thr	Ser	Pro		Gln
1235					565			_		570					575	
1237	Pro	Gly	Gln			Gln	Pro	GLy			GIn	Gin	GTA		Cys	Pro
1238				580				_	585					590	~7	<b>61</b>
1240	Thr	Ser			Gln	Thr	Gly		Ala	Gln	Gln	Pro			Gly	Gln
1241			595			. =		600				~-3	605			m
1243				Gln	Val	Gln			Gly	Gln	GLy		GIn	Gly	Tyr	тyr
1244		610				=	615					620	•	<b>~</b> 3	<b>a</b> 3	<b>03</b>
1246	Pro	Ile	Ser	Leu	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Gln	Ser	GLY	GIn	Gly





TIME: 12:13:02

#### RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

Input Set: A:\Sequence Listing.txt
Output Set: N:\CRF4\05202005\J534742.raw

640 630 1247 625 1249 Gln Gln Ser Gly Gln Gly His Gln Leu Gly Gln Gly Gln Ser Gly 650 1252 Gln Glu Gln Gln Gly Tyr Asp Asn Pro Tyr His Val Asn Thr Glu Gln 665 660 1255 Gln Thr Ala Ser Pro Lys Val Ala Lys Val Gln Gln Pro Ala Thr Gln 680 1258 Leu Pro Ile Met Cys Arg Met Glu Gly Gly Asp Ala Leu Ser Ala Ser 1259 690 695 1261 Gln 1262 705 1265 <210> SEQ ID NO: 9 1266 <211> LENGTH: 602 useit (2207 1267 <212> TYPE: PRT 1268 <213> ORGANISM: Wheat 1270 <223> OTHER INFORMATION: glu1A E--> 1272 <400> SEQUENCE: 9 1274 Met Ala Lys Arg Leu Val Leu Phe Ala Thr Val Val Ile Gly Leu Val 1275 1 1277 Ser Leu Thr Val Ala Glu Gly Glu Ala Ser Lys Gln Leu Gln Cys Glu 1280 Arg Glu Leu Gln Glu Ser Ser Leu Glu Ala Cys Arg Leu Val Val Asp 40 1283 Gln Gln Leu Ala Ser Arg Leu Pro Trp Ser Thr Gly Leu Gln Met Arg 50 1286 Cys Cys Gln Gln Leu Arg Asp Ile Ser Ala Lys Cys Arg Pro Val Ala 70 75 1287 65 1289 Leu Ser Gln Val Ala Arg Gln Tyr Gly Gln Thr Ala Val Pro Pro Lys 90 1292 Gly Gly Pro Phe Tyr His Arg Glu Thr Thr Pro Leu Gln Gln Leu Gln 105 100 1295 Gln Gly Ile Phe Gly Gly Thr Ser Ser Gln Thr Val Gln Gly Tyr Tyr 115 120 1298 Pro Ser Val Ile Ser Pro Gln Gln Gly Ser Tyr Tyr Pro Gly Gln Ala 140 135 1301 Ser Pro Gln Gln Pro Gly Lys Trp Gln Glu Leu Gly Gln Gln Gln 150 155 1304 Trp Tyr Tyr Pro Thr Ser Leu Gln Gln Pro Gly Gln Gln Gln Gly 170 165 1307 Tyr Tyr Arg Thr Ser Leu Gln Gln Pro Gly Gln Arg Gln Gln Gly Tyr 180 185 1310 Tyr Arg Thr Ser Leu Gln Gln Pro Gly Gln Gly Gln Gln Ile Gly Gln 200 1313 Trp Gln Gln Gly Tyr Tyr Pro Thr Ser Pro Gln His Pro Gly Gln Gly 215 210 1316 Gln Gln Pro Gly Gln Val Gln Lys Ile Gly Gln Gly Gln Gln Pro Glu 1317 225 1319 Lys Gly Gln Gln Leu Gly Gln Glu Gln Gln Ile Gly Gln Gln Gln 250



TIME: 12:13:02

#### RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

	_	~3	~3	~3	a1	<b>61</b>	Desa	~1	<b>~1</b> ~	C1.,	Cln	Cln	Dro	Glv	Gln	Glv
1322	Pro	GIu	GIn	260	GIn	GIn	Pro	GIY	265	GIY	GIII	GIII	PIO	270	GIII	GIY
1323 1325	<b>~1</b>	<b>01</b> -	<i>α</i> 1		П	Dro	ሞኮሎ	Car		Gln	Gln	Pro	Glv		Glv	Gln
	GIn	GIII		ıyı	ıyı	PIO	1111	280	пец	GIII	OIII	110	285	02	0-1	02
1326 1328	a1	D	275	~1 ~	T-~~	Cln	Cln		Clv	Gln	G] v	Gln		Glv	Tvr	Tvr
	GIN		GIY	GIII	пр	GIII	295	PIO	Gry	GIII	Gry	300	0111	017	- 1 -	-1-
1329 1331	<b>5</b>	290	0	T	<b>~1</b> ~	C1n		1721	Cln	Glv	Gln		Glv	His	Tur	Pro
		Thr	ser	Leu	GIII	310	PIO	vai	GIII	Gry	315	0111	Ory	1115	- 7 -	320
1332 1334	305	C	<b>~1</b> ~	111.0	C1 5		Clar	Cln	Glv	Gln		Glv	His	Gln	Pro	-
	Ald	ser	GIII	птэ	325	PIO	Gry	GIII	Ory	330	01	017		01	335	
1335 1337	0	T 011	C1 n	T 011		Clv	Cln	Glv	Gln		Glv	His	His	Pro		Ser
	ser	ьeu	GIII	340	261	GIY	GIII	Gry	345	0111	017			350		
1338 1340	T 011	Cln	Cln		Glv	Gln	Glv	Lve		Thr	Glv	Gln	Ara		Gln	Arq
	ьеи	GIII	355	FIO	GIY	GIII	Ory	360	01		0-1	0	365			3
1341 1343	Cln.	Cln		Glv	Gln	Glv	Gln		Thr	Glv	Gln	Glv		Gln	Pro	Glu
1343	GIII	370	FIO	Gry	0111	Ory	375	01				380				
1344	Gln		Gln	Gln	Pro	Glv		Glv	Gln	Gln	Glv	Tvr	Tvr	Pro	Thr	Tyr
1347		GIU	0111	0111	110	390	01	0-1			395	- 1 -	4			400
1347	T.e.11	Gln	Gln	Pro	Glv		Glv	Gln	Gln	Pro		Gln	Trp	Gln	Gln	Pro
1350	пси	0111	0111	110	405	<b>41</b>	<b>U</b> -1			410			•		415	
1352	Glv	Gln	Glv	Gln		Glv	His	Tvr	Pro	Ala	Ser	Leu	Gln	Gln	Ser	Gly
1352	O <sub>T</sub>	01	017	420	O	1		-1-	425					430		
1355	Gln	Glv	Gln		Glv	His	Tyr	Pro	Ala	Ser	Leu	Gln	Gln	Leu	Gly	Gln
1356		1	435		1		•	440					445			
1358	Glv	Gln		Gly	Gln	Thr	Gln	Gln	Pro	Gly	Gln	Gly	Gln	Gln	Pro	Glu
1359	1	450		- 4			455			_		460				
1361	Gln		Glu	Gln	Ser	Gly	Gln	Gly	Gln	Gln	Gly	Tyr	Tyr	Pro	Thr	Ser
1362	465					470					475					480
1364	Pro	Gln	Gln	Pro	Gly	Gln	Gly	Gln	Gln	Gly	His	Phe	Pro	Thr	Ser	Gly
1365					485					490					495	
1367	Gln	Ala	Gln	Gln	Pro	Gly	Gln	Gly	Gln	Gln	Ile	Gly	Gln	Ala	Gln	Gln
1368				500					505					510		
1370	Leu	Gly	Gln	Gly	Gln	Gln	Gly	Tyr	Tyr	Pro	Thr	Ser	Leu	Gln	Gln	Pro
1371			515					520					525		_	
1373	Gly	Gln	Glu	Gln	Gln	Ser	Gly	Gln	Gly	Gln	Gln			Gln	Gly	His
1374		530					535					540			_	_
1376	Gln	Pro	Gly	Gln	Gly	Gln	Gln	Ser	Gly	Gln	Glu	Gln	Gln	Gly	Tyr	Asp
1377						550					555		_	_	_	560
1379	Ser	Pro	Tyr	His	Val	Ser	Val	Glu	Gln			Ala	Ser	Pro	Lys	Val
1380					565		_	_		570		1		<u> </u>	575	
1382	Ala	Lys	Ala		His	Pro	Val	Ala			Pro	Thr	Met			Met
1383				580				_	585					590		
1385	Glu	Gly		Asp	Ala	Leu	Ser			Gin						
1386			595					600								•
1517																
1518								pse	4 /	/ つつ	07					
1519							L	pse	M <	. X O	. • /					
1520	<21	3 > 0	RGAN	ISM:	whe	at							o+ : =			
1522	<22	3> 0	THER	INF	ORMA	ттои	: pr	eser	vea	C-te	rmin	aı m	OCII			



#### RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005 TIME: 12:13:02

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\05202005\J534742.raw

E--> 1524 <400> SEQUENCE: 11

1526 Leu Lys Val Ala Lys Ala Gln Gln Leu Ala Gln Leu Pro Ala Met

1527 1 5 10 15

1529 Cys Arg

This needs to be explained in 12207-12237 section. Ywe source of genetic material. <210> 44 <211> 9 PRT / Artificial sequence <220> <221> misc feature <222> <223> Xaa is any residue <220> <223> Gln in position 4 is the amino acid to be mutated <400> 44 Gln Xaa Pro Gln Gln Pro Gln Gln Phe

same enn in Sequences 36 though 40, 41-43



VERIFICATION SUMMARY
PATENT APPLICATION: US/10/534,742

DATE: 05/20/2005 TIME: 12:13:03

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\05202005\J534742.raw

L:10 M:270 C: Current Application Number differs, Wrong Format
L:30 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:1
L:196 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:2
L:359 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:3
L:528 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:4
L:697 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:5
L:857 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:6
L:994 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:7
L:1127 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:8
L:1272 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:9
L:1524 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:11
L:1637 M:283 W: Missing Blank Line separator, <220> field identifier
L:2062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0